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FROM  
Al. Montague's  
File 10/81

1 copy each to: ~~Paul Ambrose~~ dm  
B. H. ~~S. Gremp~~

ORIGINAL  
(Red)

THE RELATION OF  
SOLID WASTE DISPOSAL  
TO WATER QUALITY

Prepared By the  
New Castle County  
Areawide Waste Treatment Management Program

August 1, 1975

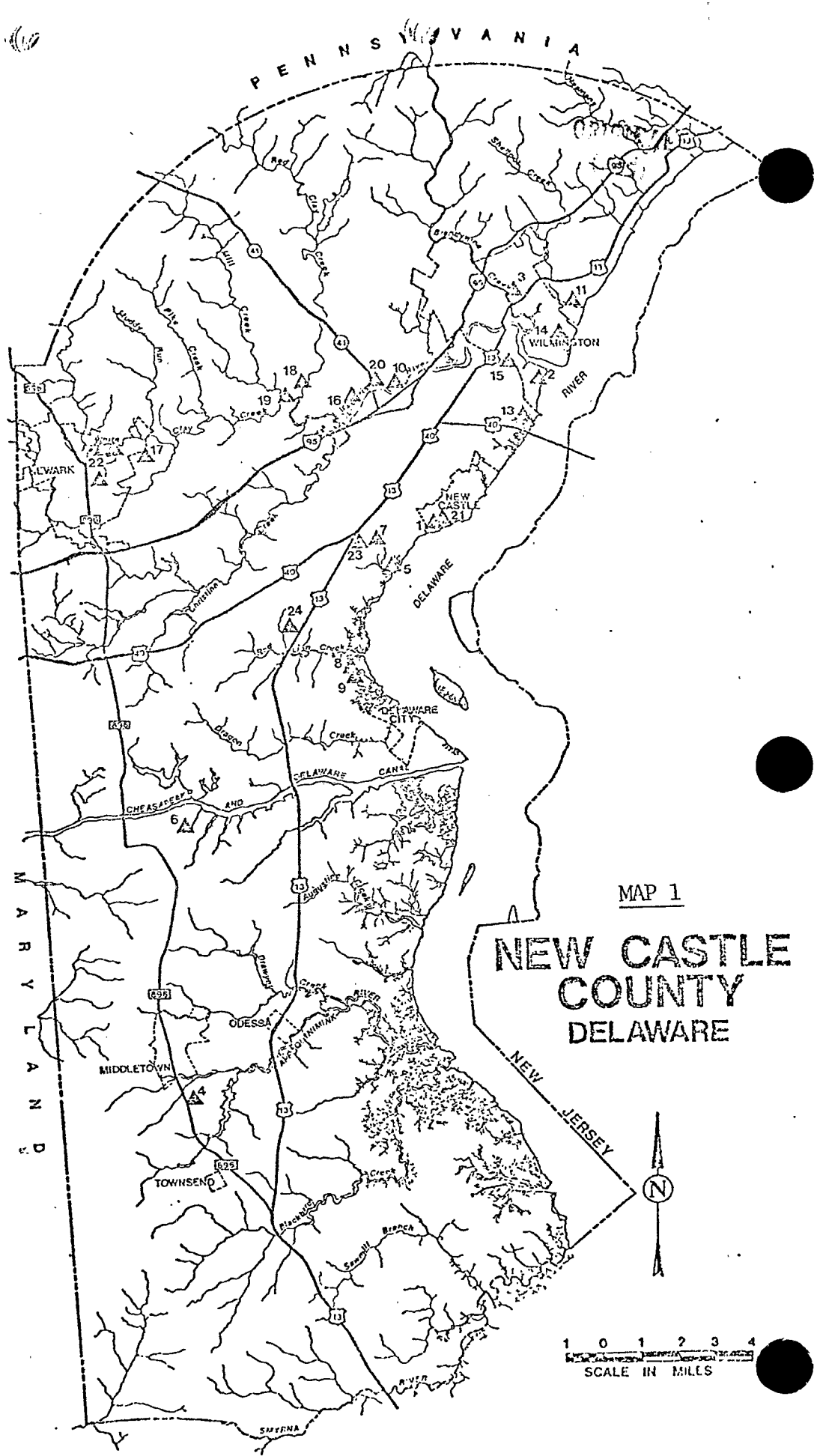
E. I. du Pont Nemours  
AR100237

TABLE 1

KEY TO EXISTING LANDFILLS

ORIGINAL  
(head)

<u>Number</u>	<u>Designation</u>
1	Abex Corporation
2	Marine Terminal
3	Container Corporation of America
4	Delaware State Highway Department
5	Weaver's Pole Line Construction
6	Carmen Miccucio
7	Delaware Sand and Gravel
8	Diamond Shamrock Chemical Company
9	Getty Oil Company
10	Harvey and Knotts
11	Delmarva Power & Light Co., Edgemoor
12	Delmarva Power & Light Co., Delaware City
13	Pigeon Point
14	DuPont, Edgemoor
15	Delaware Contracting Company (Pyrites Co.)
16	E.I. duPont de Nemours & Co., Newport
17	FMC Corporation
18	O. & T. Realty
19	Timko Brothers
20	City of Newport
21	Wilmington Fibre Specialty Company
22	City of Newark
23	Llangollen
24	Tybouts Corner



... underlain by sandy sediments as attested by the borrow pit adjacent to the landfill. Leachate seeps which discharge to the Christina River are visible.

ORIGINAL  
(700)

#### I. I. DUPONT DE NEMOURS & CO., NEWPORT

The DuPont landfill is located in the southwest corner of the pigment plant site at James and Water Streets in Newport (Figure 2). About seven acres was used for filling between 1945 and 1974 when the landfill operation was terminated. The disposal site, which has been raised 15 feet by filling, was originally marshland adjacent to the Christina River. The fill received industrial wastes, characterized as primarily paper, cardboard, construction debris, plastic shutters, as well as magnetic tape, low-radioactivity wastes, waste pigment batches, and other inorganic wastes of an undetermined nature, in the amount of 3000 tons/year. While in use, the fill was covered twice weekly with common borrow material from the surrounding area.

This landfill was operated until after the promulgation of the new solid waste regulations and is, therefore, subject to the groundwater quality and gas monitoring requirements contained therein if leachate production is occurring. Any leachate produced would move into the Christina River because of the underlying impermeable marsh soils and the water table gradient sloping to the river. A program for monitoring the groundwater quality in the vicinity of the landfill has been initiated by the Department of Natural Resources and Environmental Control.

#### GETTY OIL COMPANY

The Getty industrial landfill is located west of State Route 9 in a low area adjacent to the Diamond Shamrock property and north of Delaware City (Figure 3). The landfill area is 37 acres, with the fill completed to a depth of 10 feet in some areas. Reportedly, excavation was accomplished up to 12 feet below the original ground surface in some areas. The waste material has been characterized as being mixed and varied, including spent catalysts, ceramic tower packing, and some tar-like sludges. Once the new Getty wastewater treatment plant begins full-time operation, approximately 20-40 cu.yds. per day of aerobically treated and concentrated sludge will be placed in the fill area. Cover is applied infrequently and is obtained from the surrounding marsh soils. Little groundcover, except some phragmites communis, exists. The site was licensed in late 1968, and its projected life has not been determined, although it would be at least several years.

It is not possible to characterize the leachate-producing potential of the fill material, primarily because of the heterogeneous and partially unknown composition of the wastes and the lack of information concerning their leachability properties. Its proximity to a major water table aquifer, however,

ORIGINAL

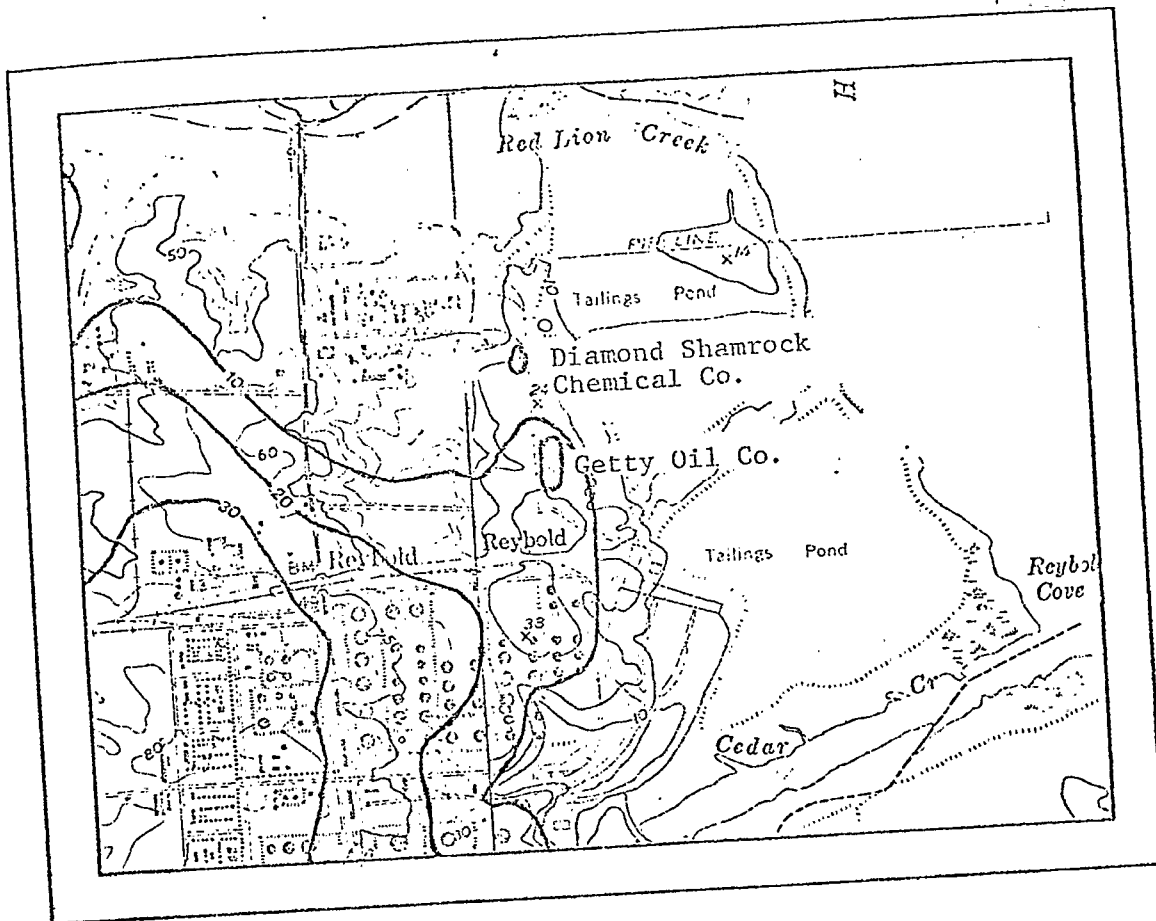


Figure 3 : Locational map for landfills.

LEGEND

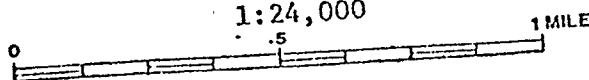
Base map: U.S. Geological  
Survey quadrangles

Approximate extent of  
the landfill site

Water table elevation  
contour lines

SCALE

1:24,000



APPENDIX A

Landfill Site

Contact Person

DuPont Co.	Mr. Phillip A. Palmer (Louviers, 366-3858)
Container Corporation of America	Mr. Al Gray (Plant Manager, 655-3364, 652-3601)
Pyrites Company	Mr. Gordon (655-6578)
Marine Terminal	Mr. Steinle (656-8566)
O. & T. Realty	Mr. Michael Timko (998-8901)
City of Newport	Mrs. Virginia Price (Clerk, City Hall, 994-6403)
Harvey & Knotts	Mr. Edgar Harvey (994-0991)
Delaware Contracting Co.	Mr. Jim Thomas (998-1148)
FMC Corporation	Mr. Bob Warty (Plant Engineer, 737-6160)
Wilmington Fibre Specialty	Mr. John W. Morris III (328-7525)
Abex Corporation	Mr. Ivery (Plant Engineer, 328-7513)
Delaware Sand & Gravel	Mr. Dell Aversano
Weaver's Pole Line Construction Co.	Mr. Weaver (328-6672, 322-1509)
Delmarva Power & Light	Mr. Hudson Hoen (429-3494)
Diamond Shamrock Chemical Co.	Mr. Jess Vargo (Plant Engineer, 834-4561)
Getty Oil Co.	Mr. Dick Ladd (Plant Environmental Engineer, 834-4581)
Carmen Miccucio	Mr. Miccucio (366-8426)
State Highway Dept. (Middletown)	Mr. Gary Homewood (678-4327)
Timko Bros.	Mr. Paul Timko (998-9813)